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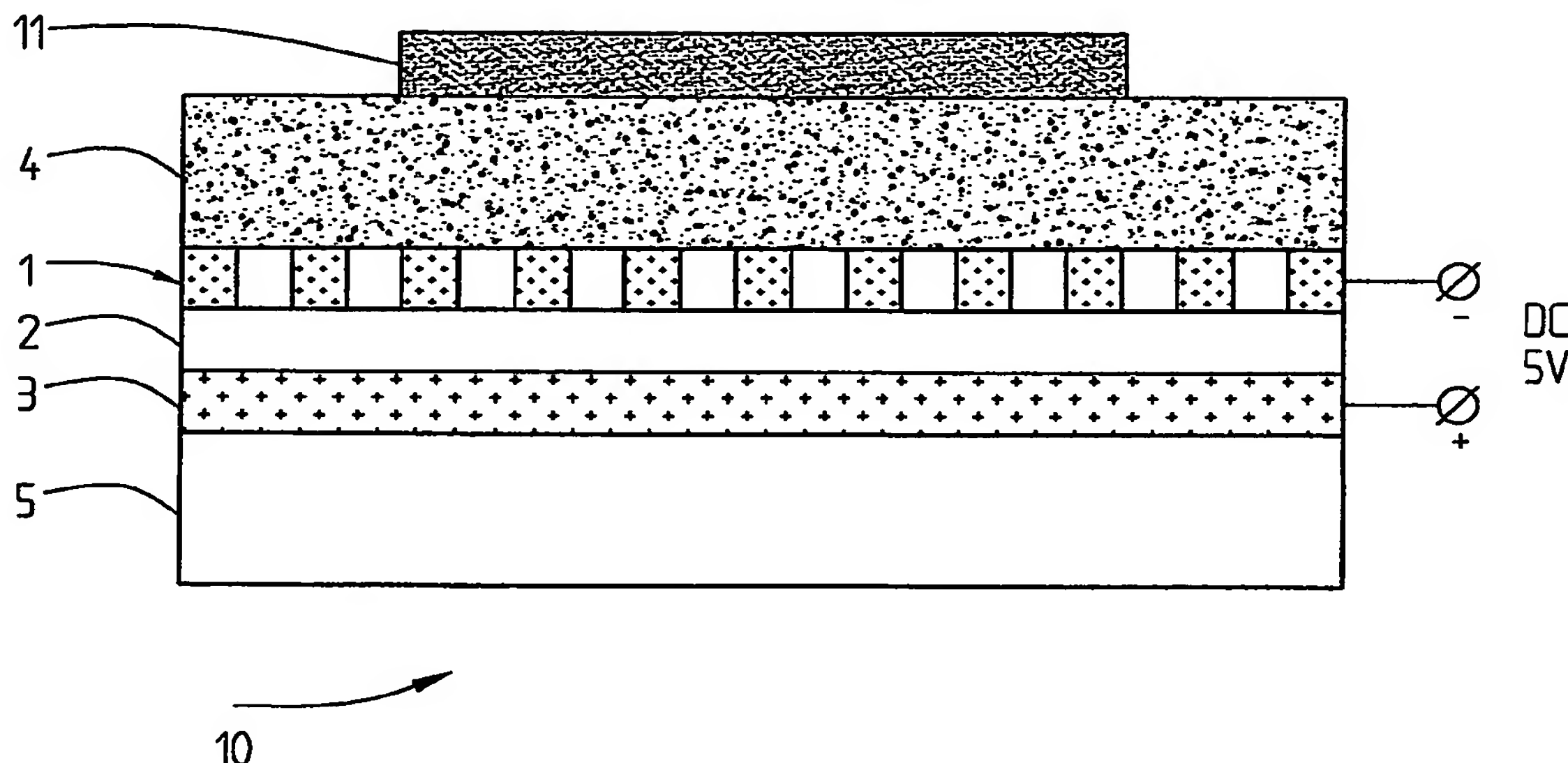
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(54) Title: TUNABLE MICROWAVE ARRANGEMENTS



(57) Abstract: The present invention relates to a tunable microwave arrangement (10) comprising a microwave/ integrated circuit device (11) and a substrate (6). It comprises a layered structure disposed between said microwave /integrated circuit device and said substrate (5), said layered structure acting as a ground plane and it comprises at least one regularly or irregularly patterned first metal layer (1), at least one second metal layer (3), at least one tunable ferroelectric film layer (2), whereby said layers are so arranged that the ferroelectric film layers) (2) is/are provided between the/a first metal layer (1) and the/a second metal layer (3).